

ABSTRACT OF THE DISCLOSURE

A joint device includes a supply pipe having an ink supply port, a closing device for opening and closing the ink supply port, a deformation device for deforming the closing device and an urging device for urging the deformation device. An ink jet recording apparatus includes the above joint device, a supply pipe, a closing device, a deformation device, and an urging device. An ink supplying device includes a negative-pressure introducing device introducing negative pressure into the ink tank an ink supplying device supplying the ink to the ink tank, a gas-liquid separating device provided between the ink tank and the negative-pressure introducing device, for transmitting gases therethrough while not transmitting the ink therethrough, and an isolation device separating the negative-pressure introducing path. An ink supplying method includes negative-pressure introducing step, gas-liquid separating step introducing a negative pressure into an ink tank, and isolation step isolating the negative-pressure introducing path.